Update of Space Shuttle Program Radio Frequency Interference (RFI) Management Manual

C. ShamStatus to NSG19 September 2002

Reasons Prompting this Update

- Existing RFIMM does not address pre-launch coordination requirements and procedures
 - Potential RFI due to changes in local RF environment
 - S-band coordination with DoD
- Existing RFIMM focused on Shuttle systems/links supported by the Network
 - Desires to include all Shuttle systems to ensure protection for all critical frequencies and usages
- Changes within the DoD and how they support the Shuttle Program
- Last update was 1994
 - Appendix with various Agency points of contacts are out-dated
 - Changes to Shuttle systems/frequencies

Background

- Presented the reasons supporting an update effort to Space Shuttle Program Manager, Mr. Dittemore, and Space Shuttle Systems Integration Office Manager, Mr. Austin in May 2002.
 - Mr. Dittemore and Mr. Austin agreed an update of this Management Manual should be conducted and recommended this Document be baselined as a SSP document.
- Discussed changing the book manager responsibility from GSFC to the SSP with Mr. T. Sobchak in June 2002.
 - Mr. Sobchak concurred
 - Network coordination procedures currently in place between GSFC,
 MCC, WSC and other supporting sites will remain the same
- A working group was formed, consisting of personnel from GSFC, KSC, GRC, JSC and HQ, to begin update of this document in June 2002.

Change Highlights

- Re-structure the document to place emphasis on "how the SSP will manage its RFI issues"
 - Designates responsible points of contact within NASA and establishes the top level working procedures
 - Documented POCs and procedures to ensure continuity during personnel change
 - Reduces details on how DoD does internally to support the SSP and focus on how DoD and other agencies will interface with NASA to prevent and resolve RFIs
 - Specifics will be documented in separate MOAs and reference in this Manual
 - Removed detail description of how RFI reporting/resolution is done within the Network – suggest moving it to an appendix or a separate Network document

Change Highlights

- Provides the RFI management philosophy and general procedures for coordinating, reporting and resolving RFI that may occur during the prelaunch, launch, orbital and landing phases of the Space Shuttle missions.
 - Prelaunch phase
 - Local level coordination at launch/landing sites and emergency sites
 - National level coordination
 - International level coordination
 - Operational phase
 - MCC FD (or his designate) is responsible for reporting all suspected RFI incidents for resolution.
 - Network issues: ND will take action to resolve
 - All other RFI issues: JSC Spectrum Manager will take action to resolve
 - Post-Landing Phase
 - Conducted in accordance with OMI S0028
 - Emergency Operation and Landing Sites
 - Per existing procedures

Summary

- A draft revision of the Document will be going through a review by NASA Spectrum Management Office beginning October 2002.
- Expect to discuss and finalize DoD participation/support to the SSP in March 2003 NASA/DOD meeting
- Plan to submit to SSP for baseline after NASA/DOD meeting